

Kindly amend the claims as follows:

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1. (Currently amended) A vaccine for immunizing fish against ciliated ectoparasitic protozoans comprising an effective amount of a recombinant fusion protein derived from an artificial DNA sequence for immobilization antigen, repeat I of *Ichthyophthirius multifiliis* wherein said sequence is at least one member selected from the group consisting of SEQ. ID NOs. 1-17.

2. (Original) The vaccine according to claim 1 wherein the fusion protein is GST-iAgl.

3. (Previously amended) The vaccine according to claim 1 further comprising a medium comprising at least one of buffers, adjuvants, immunostimulants or carriers.

F 4. (Original) The vaccine according to claim 1 having the property that, when it is injected into a fish, provides effective protection against white spot disease caused by *Ichthyophthirius multifiliis*.

5. (Previously amended) The vaccine according to claim 2, wherein the fusion protein is produced using E-coli.

6. (Currently amended) The vaccine according to claim 4, wherein the disease is caused by at least one ciliated ectoparasitic protozoan.

7. (Original) The vaccine according to claim 6 wherein said ciliated protozoan consists of *Ichthyophthirius multifiliis*.

8. (Previously amended) The vaccine according to claim 6 wherein said ciliated protozoans are taxonomically related to *Ichthyophthirius multifiliis*.

✓ 9-23 Cancelled

24. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 1.
25. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 3.
26. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 10.
27. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 11.
28. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 12.
29. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 13.
30. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 14.
31. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 15.
32. (New) The vaccine according to claim 1 wherein said sequence is Seq. ID No. 16.
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